

Section II. (Amendments to the Claims)

Please amend claims 3 and 4, and add new claims 5 and 6 as set out below in the listing of claims 1-6 of the application.

1. (original) A method for producing useful substances by culturing microorganisms requiring oxygen, the method comprises the steps of:
 - (a) introducing pure oxygen to a microbial culture process;
 - (b) recycling the off-gas of the microbial culture process to a pressure swing adsorption (PSA) system to remove carbon dioxide and to recover pure oxygen;
 - (c) introducing the recovered pure oxygen to the microbial culture process; and
 - (d) repeating the steps (b) and (c).
2. (original) A method for treating wastewater with microorganisms requiring oxygen, the method comprises the steps of:
 - (a) introducing pure oxygen to a wastewater treatment process;
 - (b) recycling the off-gas of the wastewater treatment process to a pressure swing adsorption (PSA) system to remove carbon dioxide and to recover pure oxygen;
 - (c) introducing the recovered pure oxygen to the wastewater treatment process; and
 - (d) repeating the steps (b) and (c).
3. (currently amended) The method according to claim 1 ~~or~~ 2, wherein the separate air or high-concentration oxygen is fed to the PSA system upon the recycling of the off-gas.
4. (currently amended) The method according to claim 1 ~~or~~ 2, wherein oxygen content of the pure oxygen is 85~100%.
5. (new) The method according to claim 2, wherein the separate air or high-concentration oxygen is fed to the PSA system upon the recycling of the off-gas.
6. (new) The method according to claim 2, wherein oxygen content of the pure oxygen is 85~100%.